

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460



**OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES
Antimicrobial Division**

9/29/2016

DP BARCODE: 432750

MRID: 476968-01, 493387-01, 493871-01, 497764-01, and 497764-02

SUBJECT: Carb

REG. NO. OR FILE SYMBOL: 67619-21

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use product ☐ **OR** **End-use product**☒

INGREDIENTS (PC Codes): 069105, 069165, 069166, and 001501

CAS Number: 68424-85-1, 32426-11-2, 5538-94-3, and 64-17-5

TEST LAB:

SUBMITTER: Clorox Professional Products Co. c/o PS&RC

GUIDELINE:

COMMODITIES: Formulation

REVIEWER: Sergey Alekseyev

ORGANIZATION: AD/PSB/CTT

APPROVER: Karen P. Hicks

APPROVED DATE:

COMMENT:

TO: Jose Gayoso/Timothy Young
PM Team 36
Regulatory Management Branch II
Antimicrobials Division (7510P)

FROM: Sergey Alekseyev, Chemist
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THRU: Karen P. Hicks, Team Leader
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APPLICANT: Clorox Professional Products Co. c/o PS&RC

Action code: (676) Product Reregistration Decision

Due out date:

Product Formulation

Active Ingredient(s):

Name:	% by wt.
BTC-835 (Alkyl* dimethyl benzyl ammonium chloride *(50% C14, 40% C12, 10% C16))	0.2520
	0.0945
Bardac 2050 (1-Decanaminium, N,N-dimethyl-N-octyl-, chloride)	0.1890
Bardac LF (1-Octanaminium, N,N-dimethyl-N-octyl-, chloride)	0.0945
Ethyl alcohol	58.0600

BACKGROUND:

Clorox Professional Products Co. c/o PS&RC, provided EPA Form 8570-4 (Confidential Statement of Formula), one basic formulation and one alternate (A04), dated 05/16/2011 and 02/06/2015, respectively; EPA Form 8570-35 (Data Matrix), dated 11/16/2015; MRID Nos. 476968-01, 493387-01, 493871-01, 497764-01, and 497764-02; and a label, dated 04/01/2015. The registrant is requesting product chemistry review for reregistration of the product Carb, EPA Reg. No. **67619-21**.

FINDINGS:

1. EPA Reg. No. **67619-21** is an end-use product containing the active ingredients BTC-835 (Alkyl* dimethyl benzyl ammonium chloride *(50% C14, 40% C12, 10% C16)), Bardac 2050 (1-Decanaminium, N,N-dimethyl-N-octyl-, chloride), Bardac LF (1-Octanaminium, N,N-dimethyl-N-octyl-, chloride), and Ethyl alcohol, with a label claim nominal concentration of 0.2520%, 0.0945%, 0.1890%, 0.0945%, and 58.0600%; and other ingredients content of 41.3000%. The product is used for disinfection and deodorizing of surfaces in homes. The product is produced by a non-integrated system.
2.
 - a) The CSF for the basic formulation is acceptable. The certified limits for the active ingredients agree with 40 CFR §158.350. All ingredients have been cleared for use in pesticide formulations.
 - b) The CSF for the alternate (A04) formulation has been accepted by EPA on 04/06/2015, DP 425951.
3. Data reported in MRID No. 476968-01, 493387-01, 493871-01, 497764-01, and 497764-02 satisfy the product chemistry data requirements under Subgroups A and B, which pertain to Product Identity and Composition and Physical and Chemical Properties, respectively.
4. The Ingredients Statement on the draft label is acceptable as per 40 CFR §156.10(g) and PR Notices 91-2, 97-5, and 97-6. The Storage and Disposal Statements are acceptable in accordance with 40 CFR §156.10(i)(2)(ix) and PR Notice 83-3.

CONCLUSIONS:

The registrant has satisfied the product chemistry requirements for the registration of EPA Reg. No. **67619-21**.

Product Chemistry Data

Subgroup A: Series 830.1550 - 830.1800 (40 CFR 158.155 - 158.180)

GUIDELINE REFERENCE NO. (GRN)/ TITLE 830	40 CFR §	MRID Number	Data Fulfilled
.1550 Product Identity and Composition	158.320	CSF	Y
.1600 Description of Materials Used to Produce the Product	158.325	497764-01	Y
.1620 Description of Production Process	158.330		N/A
.1650 Discussion of Formulation Process	158.165	497764-01	Y
.1670 Discussion of Formation of Impurities	158.167	497764-01	Y
.1700 Preliminary Analysis	158.345		N/A
.1750 Certified Limits	158.350	497764-01	Y
.1800 Enforcement Analytical Method	158.355	493871-01	Y

Subgroup B: Series 830.6302 - 7950 (40 CFR 158.190)

Guideline Reference No. (GRN) / Title 830	Value or Qualitative Description	MRID Number	Data Fulfilled
.6302 Color	Straw	497764-01	Y
.6303 Physical State	Liquid	497764-01	Y
.6304 Odor	Floral	497764-01	Y
.6313 Stability to Normal and Elevated Temperature, Metals, and Metal Ions	The product is not TGAI/PAI.		N/A
.6314 Oxidation/Reduction Chemical Incompatibility	The product does not contain oxidizer/reducer.	497764-02	W
.6315 Flammability/Flame Extension	The product does not contain flammable liquid.	497764-02	W
.6316 Explodability	The product does not contain explosives.	497764-02	W
.6317 Storage Stability	The product is stable after 14 months at RT.	493871-01	Y
.6319 Miscibility	The product is not to be mixed with organic solvents.	497764-02	W
.6320 Corrosion Characteristics	The slight rusting and pitting of containers after 14 months at RT.	493871-01	Y
.6321 Dielectric Breakdown Voltage	The product is not intended to be used around electrical equipment.	497764-02	W
.7000 pH	10.83 at 20 °C	476968-01	Y
.7050 UV/Visible Light Absorption	The product is not TGAI/PAI.		N/A
.7100 Viscosity	2.44 cPs at 20 °C; 1.34 cPs at 40 °C	476968-01	Y
.7200 Melting Point	The product is not TGAI/PAI.		N/A
.7220 Boiling Point	The product is not TGAI/PAI.		N/A
.7300 Density/Bulk Density	0.874 (7.29 lbs/gal)	476968-01	Y
.7370 Dissociation Constant in Water	The product is not TGAI/PAI.		N/A
.7550 Octanol/Water Partition Coefficient	The product is not TGAI/PAI.		N/A
.7840 Solubility to Water and Organic Solvents	The product is not TGAI/PAI.		N/A
.7950 Vapor Pressure	The product is not TGAI/PAI.		N/A

Explanations: Y = Requirement fulfilled; N = Requirement not fulfilled; N/A = Not applicable; G = Data gap; U = Upgradeable; I = Incomplete or in progress; W = Waived

Note to PM: The CSF for the alternate (A05) formulation has not been attached to this package.